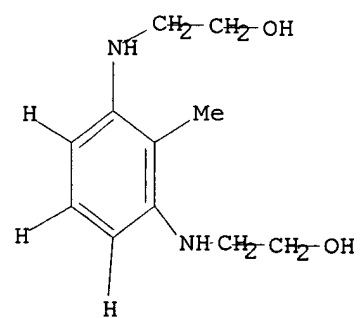


=> d 11

L1 HAS NO ANSWERS

L1 STR



=> d his ful

(FILE 'HOME' ENTERED AT 12:26:53 ON 14 JUL 2000)

FILE 'REGISTRY' ENTERED AT 12:26:58 ON 14 JUL 2000

L1 STRUCTURE UPLOADED

L2 1 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 12:27:59 ON 14 JUL 2000

L3 8 SEA L2

D IBIB 1-4

D IBIB ABS HITSTR 5-8

1st 4 answers are L'Oreal cases

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 2000:259964 CAPLUS

DOCUMENT NUMBER: 132:283911

TITLE: Coloring agents with enzymes

INVENTOR(S): Saettler, Andrea; Kleen, Astrid; Weiss, Albrecht;
Rose, David

PATENT ASSIGNEE(S): Henkel Kommanditgesellschaft auf Aktien, Germany

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021497	A1	20000420	WO 1999-EP7368	19991005
W: AU, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

DE 19847276	A1	20000420	DE 1998-19847276	19981014
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PRIORITY APPLN. INFO.:

DE 1998-19847276	19981014
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OTHER SOURCE(S): MARPAT 132:283911

AB Coloring agents for coloring fibers contg. keratin contain .gtoreq.1 dye intermediate, a choline-based oxidase system, and .gtoreq.1 peroxidase, and are characterized by a good coloring action and gentleness on hair. Preferred dye intermediates include 5,6-dihydroxyindole and 5,6-dihydroxyindoline. Thus, a melt of cetearyl alc. 8.50, C12-18 fatty alcs. 2.00, and ceteareth-20 0.75 g was emulsified with a soln. of 27.5% Na laureth sulfate 20.00, 30% cocamidopropylbetaine 12.50, and H2O 30.00

9 at 80.degree.. This cream base was mixed with 10 mL of an aq. soln. of 0.27 g 4-aminophenol (pH 7.0) and 10 mL of an aq. soln. of 0.31 g 5-amino-2-methylphenol (pH 7.0) and cooled to 30.degree.. Choline chloride (2.5 mL, 3.36 g/20 mL) was incubated with 2.5 mL aq. Alcaligenes choline oxidase soln. (33.2 U/mL) at pH 7 and 37.degree. for 30 min, and

4 mL of the incubation mixt. was mixed with 8 g of the coloring cream and 4 mL soybean peroxidase soln. (0.4 IU/mL). The mixt. was applied to

graying hair for 10 min, followed by exposure to the air for 35 min, rinsing, and drying to produce an orange-gray color.

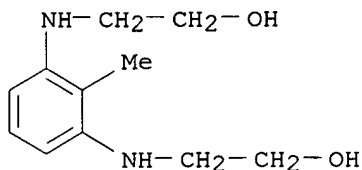
IT 149330-25-6

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(coloring agents with enzymes)

RN 149330-25-6 CAPLUS

CN Ethanol, 2,2'-[(2-methyl-1,3-phenylene)diimino]bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT:
REFERENCE(S):

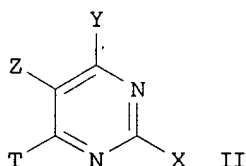
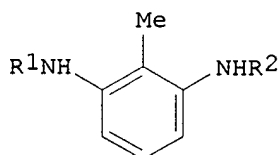
- 3
(1) Henkel Kgaa; DE 19545726 A 1997
(2) Henkel Kgaa; DE 197138 A 1998
(3) Oreal; FR 2768618 A 1999

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1998:196290 CAPLUS
DOCUMENT NUMBER: 128:234980
TITLE: Oxidative hair dyes
INVENTOR(S): Meinigke, Bernd; Rose, David; Akram, Mustafa
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19637371	A1	19980319	DE 1996-19637371	19960913
EP 832640	A2	19980401	EP 1997-115328	19970904
EP 832640	A3	19991006		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

PRIORITY APPLN. INFO.: DE 1996-19637371 19960913
OTHER SOURCE(S): MARPAT 128:234980
GI



AB Oxidative hair dyes which produce brilliant colors, esp. in the red region, and show excellent fastness and uniformity of dyeing contain m-phenylenediamine derivs. I (R1, R2 = H, C2-4 mono- or dihydroxyalkyl, allyl; R1, R2 are not both H) as couplers and pyrimidine derivs. II [X = OH, (substituted) amino; T, Y, Z = OH, NH2; .ltoreq.2 of T, X, Y, Z = OH] or 1-(2'-hydroxyethyl)-2,5-diaminobenzene as developers. Thus, a hair-dyeing compn. contg. cream base 50.0, Na2SO3 1.0, (NH4)2SO4 1.0 g, 2,6-bis(2-hydroxyethylamino)toluene 7.5 mmol, 2-morpholino-4,5,6-triaminopyrimidine 7.5 mol, concd. NH3 soln. to pH 10, and water to 100

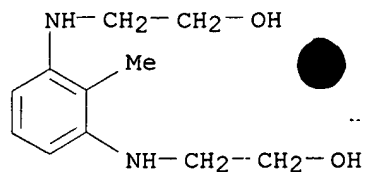
g,
when combined with 50 g 3% H2O2 soln. and applied to gray hair for 30 min at 32.degree., produced a madder-red coloration.

IT 149330-25-6

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(oxidative hair dyes)

RN 149330-25-6 CAPLUS

CN Ethanol, 2,2'-[(2-methyl-1,3-phenylene)diimino]bis- (9CI) (CA INDEX
NAME)



L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1996:701498 CAPLUS

DOCUMENT NUMBER: 125:338693

TITLE: Substituted and unsubstituted (diaminophenoxyethyl)-1,3-dioxolanes as oxidative dyes for hair

preparations

INVENTOR(S): Bittner, Andreas

PATENT ASSIGNEE(S): Hans Schwarzkopf GmbH, Germany

SOURCE: Ger., 12 pp.

CODEN: GWXXAW

DOCUMENT TYPE: Patent

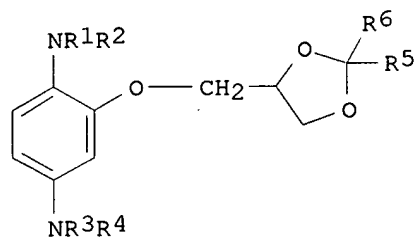
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19534214	C1	19961017	DE 1995-19534214	19950915

OTHER SOURCE(S): MARPAT 125:338693
GI



I

AB The prepn. and use of substituted and unsubstituted 4-(2,5-diaminophenoxyethyl)-1,3-dioxolanes, as well as their salts, esp. as oxidative dyes for hair preps., are of general formula I (R1,R2,R3, and R4 are H, formyl, acetyl, C1-4-alkyl, C2-3-hydroxyalkyl, C2-3-alkoxy, C2-3-aminoalkyl, and 2,3-dihydroxypropyl; and R5,R6 = H or C1-4-alkyl). The compds. can be prepd. by either: (1) coupling of the corresponding 4-substituted amino-2-halonitrobenzenes with 2,2-disubstituted-4-hydroxymethyl-1,3-dioxolanes, followed by redn. to the benzeneamine, and N-alkylation or N-oxyalkylation to I, or (2) reaction of II (R1-2 = H, R3-6 are as defined above) with ClCH2CH2OC(:O)Cl or ClCH2CH2CH2OC(:O)Cl

to

yield the corresponding N-acylated chloroformate, followed by reaction with base to yield I (R2 = H, R1 = HOCH2CH2 or HOCH2CH2CH2; R3-6 are as defined above). The compns. can be used in hair creams, hair gels or mousses, or in solns., in conjunction with added copper-based catalysts.

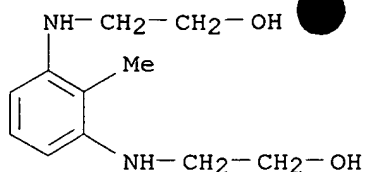
IT 149330-25-6

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(hair preps. contg.; substituted and unsubstituted (diaminophenoxyethyl)-1,3-dioxolanes as oxidative dyes for hair preps.)

RN 149330-25-6 CAPLUS

CN Ethanol, 2,2'-[(2-methyl-1,3-phenylene)diimino]bis- (9CI) (CA INDEX NAME)



L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2000 ACS
 ACCESSION NUMBER: 1993:502980 CAPLUS
 DOCUMENT NUMBER: 119:102980
 TITLE: Oxidative hair dye preparations containing substituted 2,6-diaminotoluenes
 INVENTOR(S): Akram, Mustafa; Seidel, Winfried; Schlenther, Wolfgang
 PATENT ASSIGNEE(S): Schwarzkopf, Hans, G.m.b.H., Germany
 SOURCE: Brit. UK Pat. Appl., 27 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2260135	A1	19930407	GB 1992-20658	19920930
GB 2260135	B2	19950823		
DE 4132615	A1	19930415	DE 1991-4132615	19911001
DE 4132615	C2	19940818		
US 5230710	A	19930727	US 1992-953053	19920930
JP 06206850	A2	19940726	JP 1992-261256	19920930
FR 2681860	A1	19930402	FR 1992-11693	19921001
FR 2681860	B1	19950324		
CH 684593	A	19941031	CH 1992-3073	19921001
			DE 1991-4132615	19911001

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 119:102980

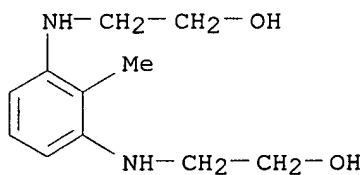
AB Substituted 2,6-diaminotoluenes are prep'd. and used in oxidative hair dye preps. A hair dye cream contg. 1% 2,6-bis(.beta.-hydroxyethylamino)toluene was mixed with 6% H2O2 50g and applied on hair for 30 min to obtain an intensive aubergine shade.

IT **149330-25-6P**

RL: PREP (Preparation)
 (prepn. of, oxidative hair dye prepn. contg.)

RN 149330-25-6 CAPLUS

CN Ethanol, 2,2'-[(2-methyl-1,3-phenylene)diimino]bis- (9CI) (CA INDEX NAME)



WEST**Freeform Search****Database:**

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JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Term:**Display:** **Documents in Display Format:** **Starting with Number** **Generate:** ☐ Hit List ☒ Hit Count ☐ Image**Search History****Today's Date:** 7/14/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	(l28 or l29 or l30) and l24	35	<u>L31</u>
USPT	l6 adj5 l7	18	<u>L30</u>
USPT	l6 adj4 (l9 or l10)	59	<u>L29</u>
USPT	l2 adj5 l27	173	<u>L28</u>
USPT	l4 adj5 (l15 or l16)	2053	<u>L27</u>
USPT	l25	72	<u>L26</u>
USPT	l24 and l23	72	<u>L25</u>
USPT	((8/405 8/406 8/407 8/408 8/409 8/410 8/411 8/412 8/414 8/415 8/416 8/421 8/423 8/424 8/425 8/426 8/428 8/429 8/431 8/432 8/433 8/435)!.CCLS.)	1164	<u>L24</u>
USPT	l8 or l11 or l12 or l14 or l18 or l22	55429	<u>L23</u>
USPT	l4 adj5 l21	7	<u>L22</u>
USPT	l2 adj5 (l19 or l20)	223	<u>L21</u>
USPT	amino adj5 aniline	1448	<u>L20</u>
USPT	aminoaniline	1833	<u>L19</u>
USPT	l2 adj5 l17	8	<u>L18</u>
USPT	l5 adj5 (l15 or l16)	316	<u>L17</u>
USPT	((diamino or metadiamino) adj benzene) or ((phenylene or metaphenylene) adj diamine)	7254	<u>L16</u>
USPT	diaminobenzene or metadiaminobenzene or phenylenediamine or metaphenylenediamine	20187	<u>L15</u>
USPT	l4 near4 l13	10	<u>L14</u>
USPT	l1 adj4 l5	73	<u>L13</u>
USPT	l1 adj4 (l9 or l10)	71	<u>L12</u>
USPT	l5 adj4 (l9 or l10)	54680	<u>L11</u>
USPT	methylbenzene	3013	<u>L10</u>
USPT	toluene	163376	<u>L9</u>
USPT	l4 near5 l7	1176	<u>L8</u>
USPT	l4 adj5 l5	7218	<u>L7</u>
USPT	(l1 or l2) adj5 l3	3224	<u>L6</u>
USPT	benzene	154062	<u>L5</u>
USPT	methyl	307912	<u>L4</u>
USPT	amino or diamino	185296	<u>L3</u>
USPT	hydroxyethyl or bishydroxyethyl or betahydroxyethyl	66533	<u>L2</u>
USPT	hydroxyethylamino or bishydroxyethylamino or betahydroxyethylamino	2947	<u>L1</u>

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	l25	72	<u>L26</u>
USPT	l24 and l23	72	<u>L25</u>
USPT	((8/405 8/406 8/407 8/408 8/409 8/410 8/411 8/412 8/414 8/415 8/416 8/421 8/423 8/424 8/425 8/426 8/428 8/429 8/431 8/432 8/433 8/435)!.CCLS.)	1164	<u>L24</u>
USPT	l8 or l11 or l12 or l14 or l18 or l22	55429	<u>L23</u>
USPT	l4 adj5 l21	7	<u>L22</u>
USPT	l2 adj5 (l19 or l20)	223	<u>L21</u>
USPT	amino adj5 aniline	1448	<u>L20</u>
USPT	aminoaniline	1833	<u>L19</u>
USPT	l2 adj5 l17	8	<u>L18</u>
USPT	l8 adj5 (l15 or l16) }*	316	<u>L17</u>
USPT	((diamino or metadiamino) adj benzene) or ((phenylene or metaphenylene) adj diamine)	7254	<u>L16</u>
USPT	diaminobenzene or metadiaminobenzene or phenylenediamine or metaphenylenediamine	20187	<u>L15</u>
USPT	l4 near4 l13	10	<u>L14</u>
USPT	l1 adj4 l5	73	<u>L13</u>
USPT	l1 adj4 (l9 or l10)	71	<u>L12</u>
USPT	L6 l8 adj4 (l9 or l10)*	54680	<u>L11</u>
USPT	methylbenzene	3013	<u>L10</u>
USPT	toluene	163376	<u>L9</u>
USPT	l4 near5 l7 L6 adj5 L7 *	1176	<u>L8</u>
USPT	l4 adj5 l5 methyl benzene	7218	<u>L7</u>
USPT	(l1 or l2) adj5 l3 l5 adj amino	3224	<u>L6</u>
USPT	benzene	154062	<u>L5</u>
USPT	methyl	307912	<u>L4</u>
USPT	amino or diamino	185296	<u>L3</u>
USPT	hydroxyethyl or bishydroxyethyl or betahydroxyethyl	66533	<u>L2</u>
USPT	hydroxyethylamino or bishydroxyethylamino or betahydroxyethylamino	2947	<u>L1</u>

WEST

Generate Collection

L26: Entry 1 of 72

File: USPT

Jun 13, 2000

US-PAT-NO: 6074438

DOCUMENT-IDENTIFIER: US 6074438 A

TITLE: Hair dyeing compositions containing 2-chloro- and
2,6-dichloro-4-aminophenol and phenylpyrazolones

DATE-ISSUED: June 13, 2000

US-CL-CURRENT: 8/409; 8/408, 8/421, 8/423

APPL-NO: 9/ 033632

DATE FILED: March 3, 1998

WEST

Generate Collection

L26: Entry 5 of 72

File: USPT

Feb 15, 2000

US-PAT-NO: 6024768

DOCUMENT-IDENTIFIER: US 6024768 A

TITLE: Diaminoalkane and oxidation colorants

DATE-ISSUED: February 15, 2000

US-CL-CURRENT: 8/410; 564/367, 564/428, 8/407, 8/408, 8/416, 8/649

APPL-NO: 9/ 214218

DATE FILED: December 30, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	196 26 740	July 3, 1996
DE	196 26 743	July 3, 1996

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP97/03466	Jul 2, 1997	WO98/01418	Jan 15, 1998	Apr 6, 1999	Apr 6, 1999

WEST

Generate Collection

L26: Entry 9 of 72

File: USPT

Nov 30, 1999

US-PAT-NO: 5993491

DOCUMENT-IDENTIFIER: US 5993491 A

TITLE: Oxidative hair dye compositions and methods containing
1-(4-aminophenyl)-2-pyrrolidinemethanols

DATE-ISSUED: November 30, 1999

US-CL-CURRENT: 8/409; 8/408, 8/423, 8/574

APPL-NO: 9/ 078264

DATE FILED: May 13, 1998

WEST

Generate Collection

L26: Entry 10 of 72

File: USPT

Nov 9, 1999

US-PAT-NO: 5980584

DOCUMENT-IDENTIFIER: US 5980584 A

TITLE: Substituted p-aminophenol, process of preparation and use in dyeing hair

DATE-ISSUED: November 9, 1999

US-CL-CURRENT: 8/408; 564/418, 564/420, 564/423, 564/443, 8/421

APPL-NO: 9/ 185023

DATE FILED: November 3, 1998

WEST

Generate Collection

L26: Entry 13 of 72

File: USPT

Feb 2, 1999

US-PAT-NO: 5865854

DOCUMENT-IDENTIFIER: US 5865854 A

TITLE: BIS-(2-4-diaminophenoxy) benzenes and their use as coupling components in oxidative hair coloring compositions and methods

DATE-ISSUED: February 2, 1999

US-CL-CURRENT: 8/408; 564/430, 8/406, 8/411, 8/416, 8/649

APPL-NO: 8/ 975912

DATE FILED: November 21, 1997

WEST

Generate Collection

L26: Entry 14 of 72

File: USPT

Dec 22, 1998

US-PAT-NO: 5851237

DOCUMENT-IDENTIFIER: US 5851237 A

TITLE: Oxidative hair dye compositions and methods containing 1--(4-aminophenyl)
pyrrolidines

DATE-ISSUED: December 22, 1998

US-CL-CURRENT: 8/409; 8/408, 8/410, 8/411, 8/412, 8/423, 8/574

APPL-NO: 8/ 892339

DATE FILED: July 14, 1997

WEST

Generate Collection

L26: Entry 19 of 72

File: USPT

Jul 27, 1993

US-PAT-NO: 5230710

DOCUMENT-IDENTIFIER: US 5230710 A

TITLE: Substituted 2,6-diaminotoluenes, processes for their preparation and coloring agents for keratinic fibers comprising these compounds

DATE-ISSUED: July 27, 1993

US-CL-CURRENT: 8/408; 564/442, 8/406, 8/407, 8/409, 8/410, 8/411, 8/412, 8/423, 8/435

APPL-NO: 7/ 953053

DATE FILED: September 30, 1992

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	4132615	October 1, 1991